



Figure 1

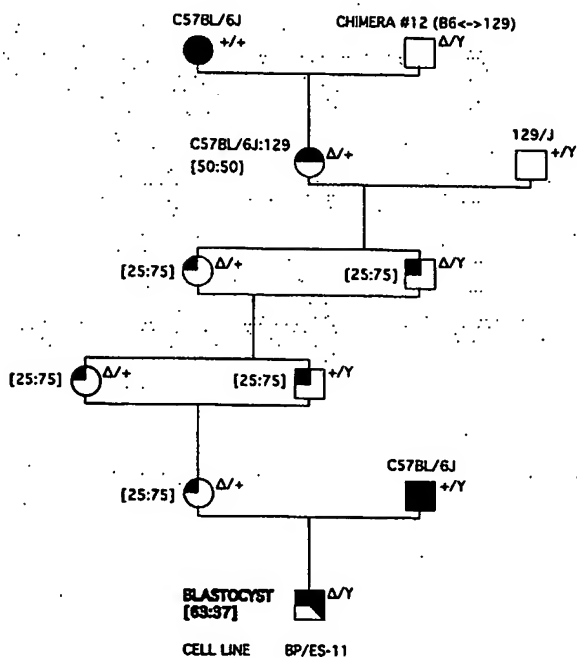
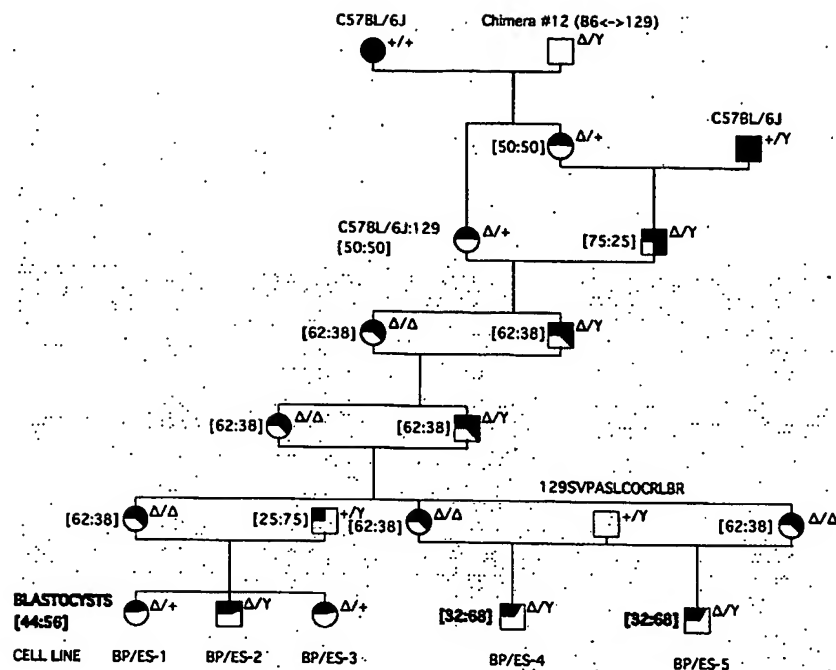
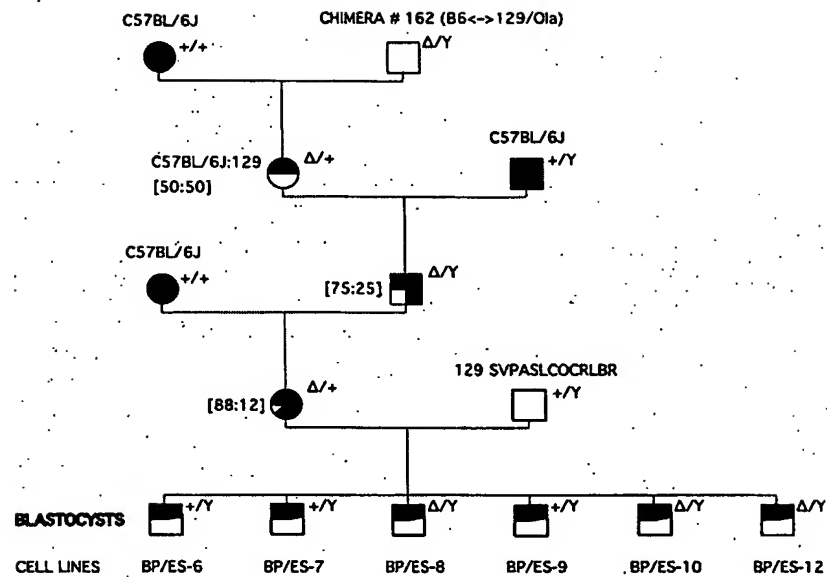


Figure 2



**Predicted genetic composition of BP/ES HPRT null cell lines:**

(Lines 4, 5)  
 31% C57BL/6  
 19% 129/Ola  
 50%  
 129/SVPASLOCRLBR

(Lines 8, 10, 12)  
 44% C57BL/6  
 6% 129/Ola  
 50%  
 129/SVPASLOCRLBR

Figure 2 cont.

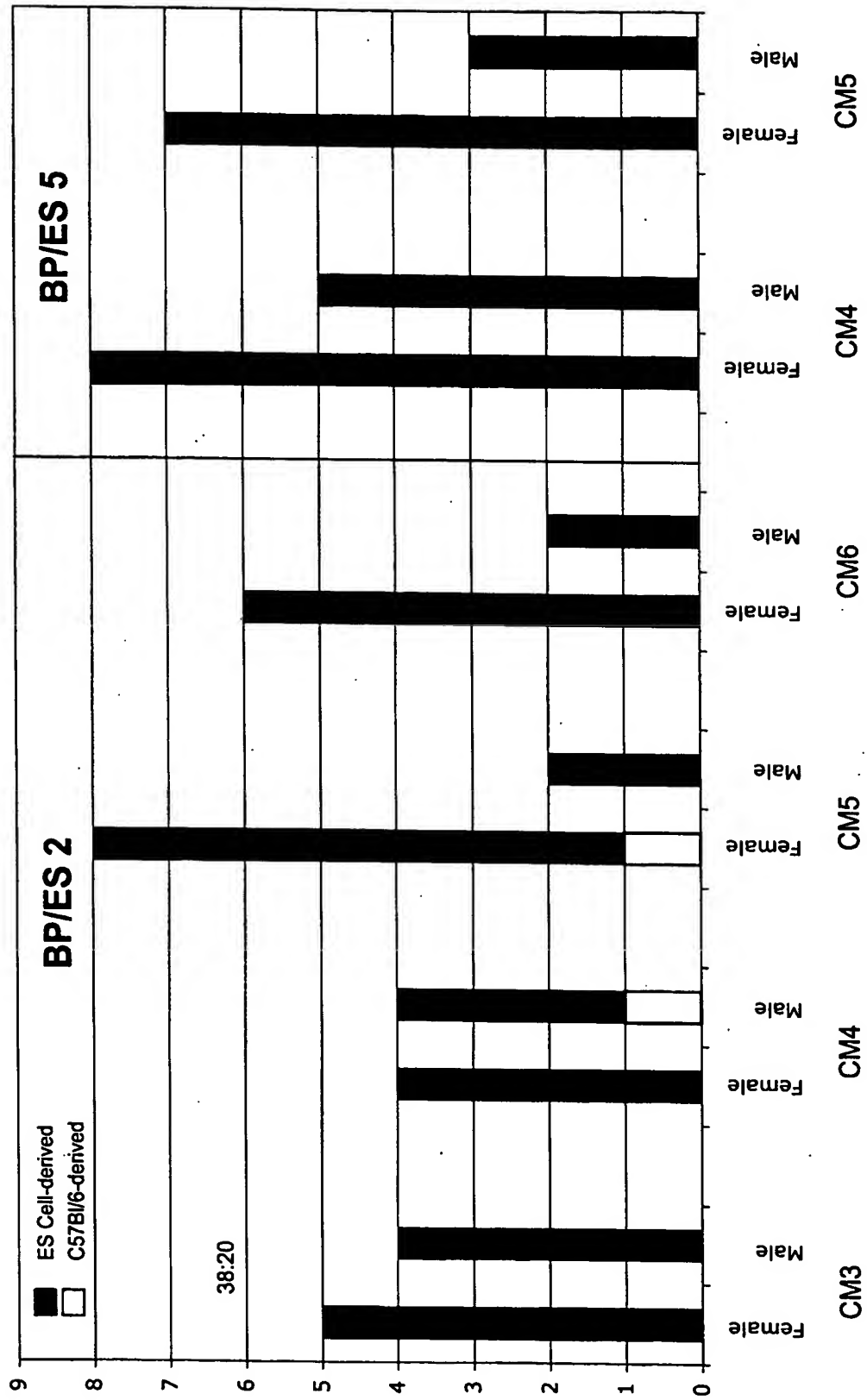


Figure 3

ES Cell Derivation

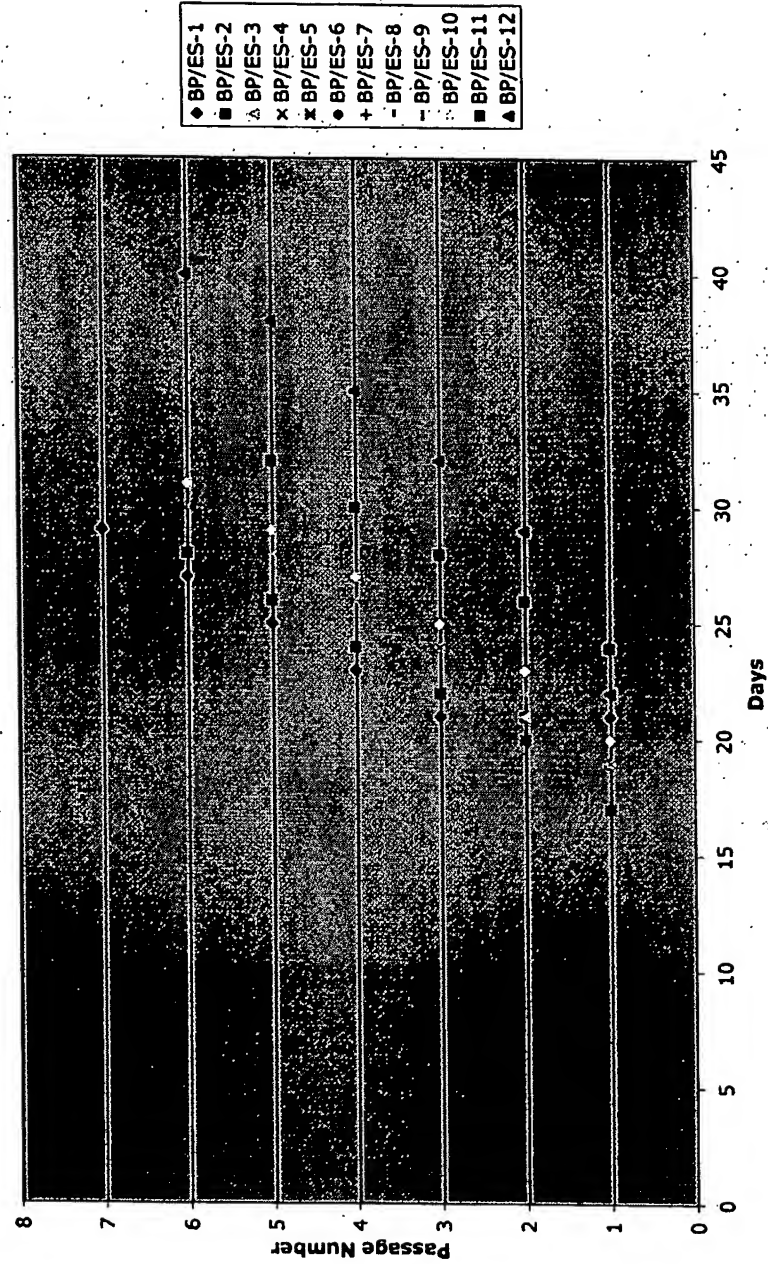
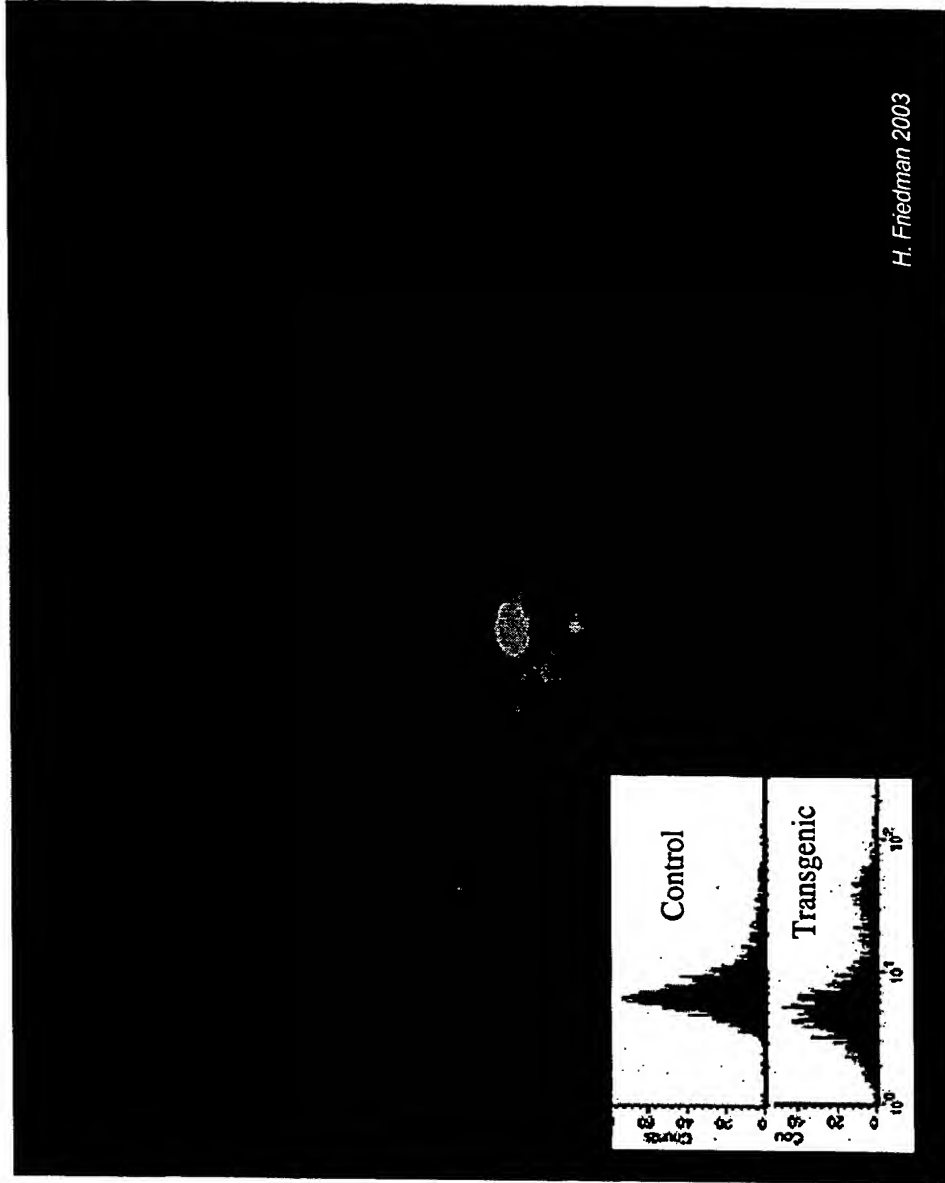


Figure 4



Figure 5

SINGLE COPY MBP- eGFP REPORTER @ HPRT  
CHIMERA BK/ES4 <--> C57BL/6



H. Friedman 2003

Figure 6



Figure 7



## DNA + 1 MONTH = MICE

JANUARY																FEBRUARY																									
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
NFH-1-1			T		S0	S1	S2	S3				C			I-Pas9 / F-62 F-63																		B-3L	P1	P2	P3	P4	P5	P6	▲	
SZ-19-1			T		S0	S1	S2	S3				C			I-Pas9 / F-64 F-65																		B-4L / 1D B-2L (CS)	P1	P2	P3	P4	P5	P6	▲	
1.9kb LacZ-10	T		S0	S1	S2	S3	▲					C			I-Pas9 / F-67 F-68																			B-1L (CS) B-5L (CS)	P1	P2	P3	P4	P5	P6	▲
44bp-2	T		S0	S1	S2	S3	▲					C			I-Pas9 / F-69 I-Pas9 / F-72																			B-4L (CS) B-5L	P1	P2	P3	P4	P5	P6	▲
bMde-7	T		S0	S1	S2	S3	▲					C			F-73																			B-4L B-5L	P1	P2	P3	P4	P5	P6	▲
																T29	T32																								
																Days		Post-Transfection																							

**T** = Transfection  
**S** = # of days under selection  
**C** = Cloning initiated  
**I** = Injection (Pas = passage #, F = recipient #)  
**B** = Day of birth  
**CS** = Cesarean section  
**P** = # of days post-natal

### Figure 8

ES LINE	CONSTRUCTS	CLONES/ CONSTRUCT	CHIMERAS BRED/ CONSTRUCT	CHIMERAS TRANSMITTING	CONSTRUCTS TO GERM LINE
BK4	LAST 7	3	11	8% (1135 progeny) <i>multiple litters</i>	2/7 (29%)
BPES/5	FIRST 7	1	2	71% (88 progeny) <i>first litters</i> 44% germ line only	5/7 (71%)

33% effort	18 % effort	<7% effort
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Figure 9



Figure 10

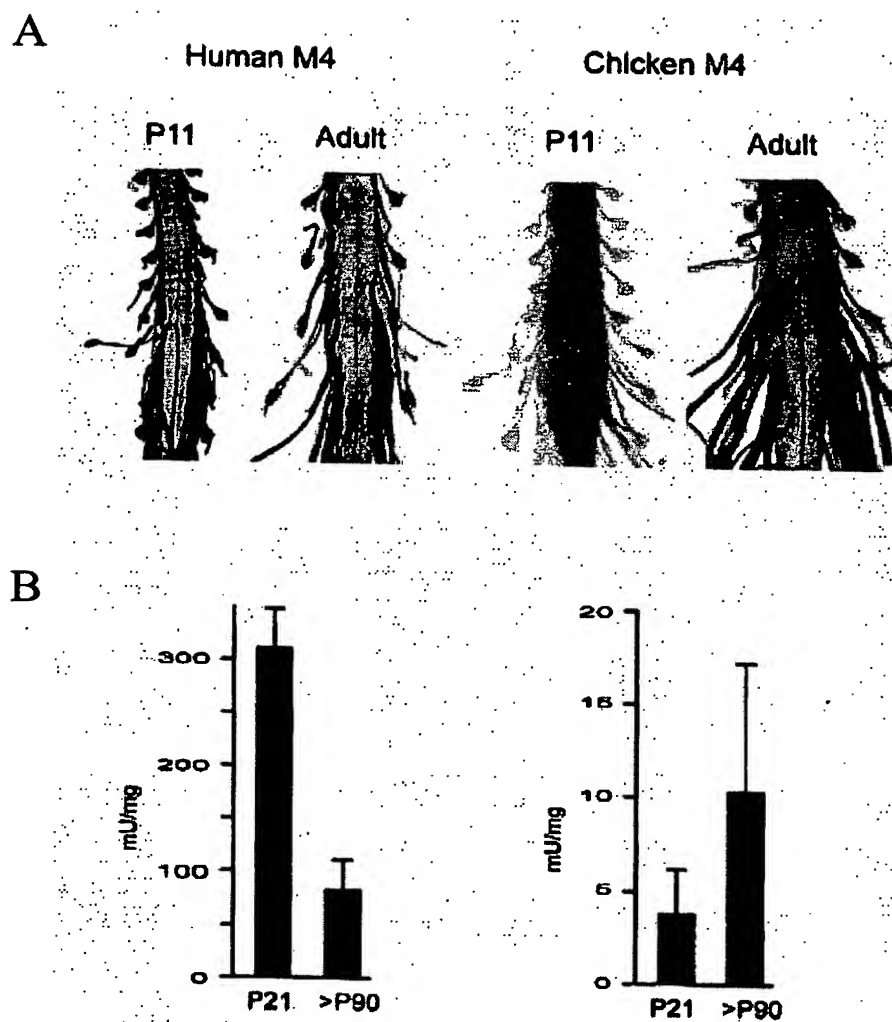


Figure 11

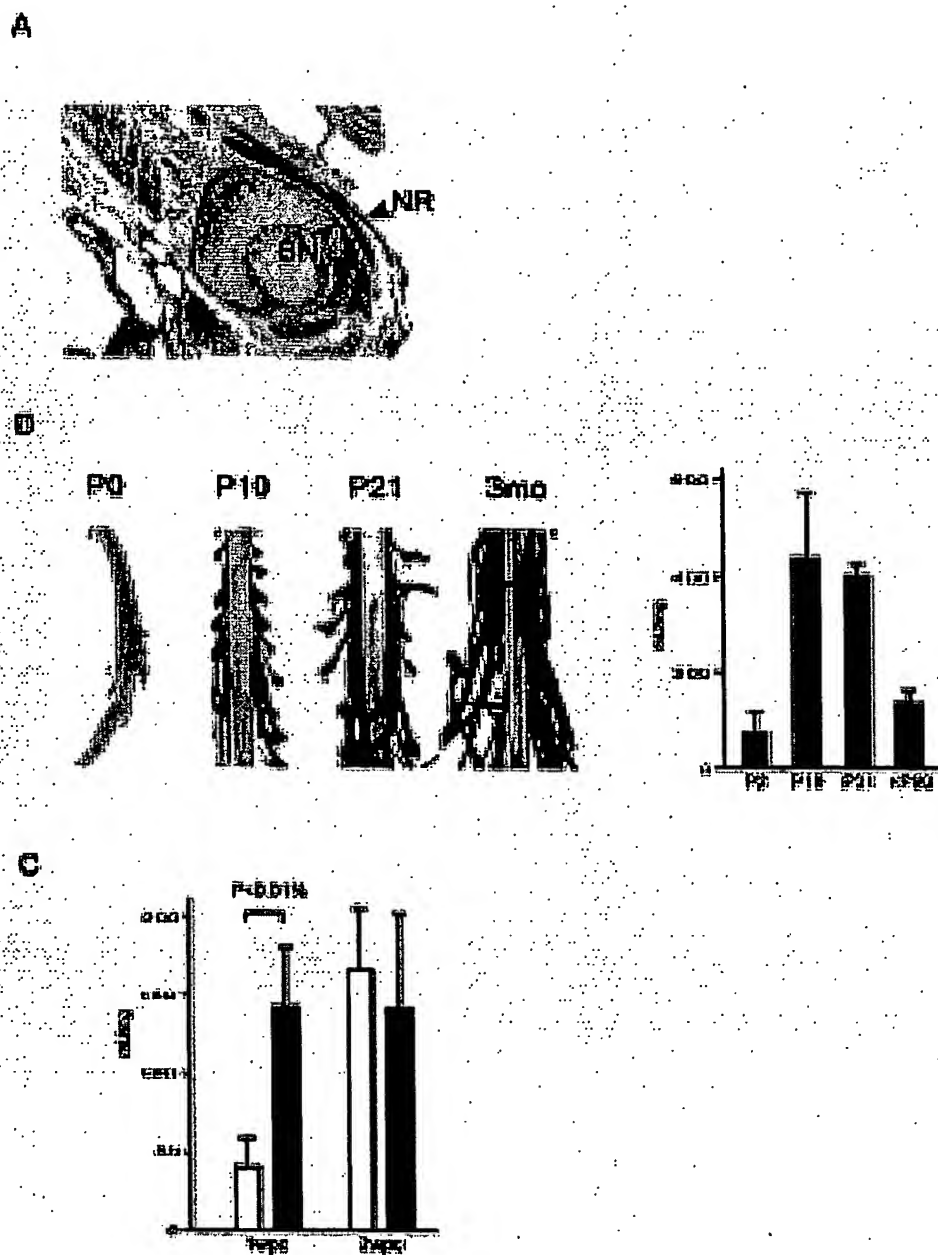


Figure 12

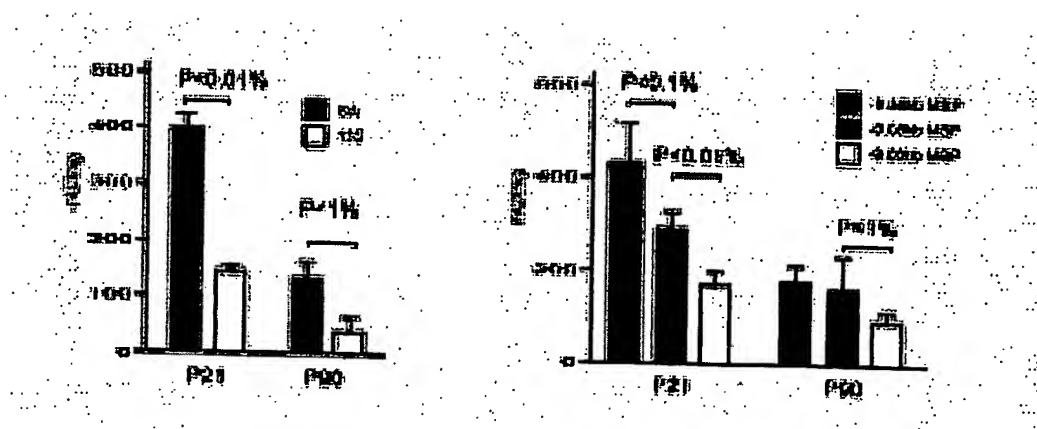


Figure 13

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